



#9

## SEQUENCE LISTING

&lt;110&gt; CO, MAN SUNG

MAXIMILLIANO, VASQUEZ

&lt;120&gt; ANTITHROMBOTIC AGENT AND HUMANIZED ANTI-VON WILLEBRAND FACTOR MONOCLONAL ANTIBODY

&lt;130&gt; 202617US0PCT

&lt;140&gt; 09/763,129

&lt;141&gt; 2001-05-16

&lt;150&gt; PCT/US99/16724

&lt;151&gt; 1999-08-19

&lt;150&gt; 09/136,315

&lt;151&gt; 1998-08-19

&lt;160&gt; 8

&lt;170&gt; PatentIn version 3.1

&lt;210&gt; 1

&lt;211&gt; 417

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

<220>

<221> CDS

<222> (1) .. (417)

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1 5 10 15		
cag tgt gag gtg aaa ctt ctc gag tct gga ggt ggc ctg gtg cag act		96
Gln Cys Glu Val Lys Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Thr		
20 25 30		
gga gga tcc ctg aaa ctc tcc tgt gca gcc tca gga ttc gat ttt agt		144
Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Asp Phe Ser		
35 40 45		
aga ttc tgg atg agt tgg gtc cg <sup>g</sup> cag gct cca ggg aaa ggg cta gaa		192
Arg Phe Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu		
50 55 60		
tgg att gga gaa gtt aat cca gat aac aat acg atg aac tat acg cca		240
Trp Ile Gly Glu Val Asn Pro Asp Asn Asn Thr Met Asn Tyr Thr Pro		
65 70 75 80		
tct cta aag gat aaa ttc atc atc tcc aga gac aac gcc aaa aat acg		288
Ser Leu Lys Asp Lys Phe Ile Ile Ser Arg Asp Asn Ala Lys Asn Thr		
85 90 95		
ctg tac ctg caa atg agt caa gtg aga tct gag gac aca gcc ctt tac		336
Leu Tyr Leu Gln Met Ser Gln Val Arg Ser Glu Asp Thr Ala Leu Tyr		
100 105 110		
tac tgt gca aga cct ccc tac tat ggt agc tac ggg ggg ttt gct tac		384
Tyr Cys Ala Arg Pro Pro Tyr Tyr Gly Ser Tyr Gly Gly Phe Ala Tyr		
115 120 125		
tgg ggc caa ggg act ctg gtc tct gtc tcg cca		417
Trp Gly Gln Gly Thr Leu Val Ser Val Ser Pro		
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<211> 139

<212> PRT

<213> Mus musculus

<400> 2

Met Asp Phe Gly Leu Ile Phe Phe Ile Val Ala Leu Leu Lys Gly Val  
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Gln Cys Glu Val Lys Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Thr  
20 25 30

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Asp Phe Ser  
35 40 45

Arg Phe Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu  
50 55 60

Trp Ile Gly Glu Val Asn Pro Asp Asn Asn Thr Met Asn Tyr Thr Pro  
65 70 75 80

Ser Leu Lys Asp Lys Phe Ile Ile Ser Arg Asp Asn Ala Lys Asn Thr  
85 90 95

Leu Tyr Leu Gln Met Ser Gln Val Arg Ser Glu Asp Thr Ala Leu Tyr  
100 105 110

Tyr Cys Ala Arg Pro Pro Tyr Tyr Gly Ser Tyr Gly Gly Phe Ala Tyr  
115 120 125

Trp Gly Gln Gly Thr Leu Val Ser Val Ser Pro  
130 135

<210> 3

<211> 381

<212> DNA

<213> Mus musculus

<220>

<221> CDS

<222> (1)..(381)

<223>

<400> 3  
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1 5 10 15  
gat gcc aga tgt gac atc cag atg act cag tct cca gcc tcc cta tct 96  
Asp Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser  
20 25 30  
gta tct gtg gga gaa act gtc acc atc aca tgt cga gca agt gag aat 144  
Val Ser Val Gly Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Glu Asn  
35 40 45  
att tac aat aat tta gct tgg tat cag cag aga cag gga aaa tct cct 192  
Ile Tyr Asn Asn Leu Ala Trp Tyr Gln Gln Arg Gln Gly Lys Ser Pro  
50 55 60  
cag ctc ctg gtc tat gct gca aca aac tta gca gat ggt gtg cca tca 240  
Gln Leu Leu Val Tyr Ala Ala Thr Asn Leu Ala Asp Gly Val Pro Ser  
65 70 75 80  
agg ttc agt ggc agt gga tca ggc aca cag tat tcc ctc aag atc gac 288  
Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Tyr Ser Leu Lys Ile Asp  
85 90 95  
agc ctg cag tct gaa gat ttt ggg agt tat tac tgt caa cat ttg tgg 336  
Ser Leu Gln Ser Glu Asp Phe Gly Ser Tyr Tyr Cys Gln His Leu Trp  
100 105 110  
act tct ccg tac acg ttc gga ggg ggg acc aag ctg gaa ata aaa 381  
Thr Ser Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
115 120 125

<210> 4

<211> 127

<212> PRT

<213> Mus musculus

<400> 4

Met Ser Val Pro Thr Gln Val Leu Gly Leu Leu Leu Leu Trp Leu Thr  
1 5 10 15

Asp Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser  
20 25 30

Val Ser Val Gly Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Glu Asn  
35 40 45

Ile Tyr Asn Asn Leu Ala Trp Tyr Gln Gln Arg Gln Gly Lys Ser Pro  
50 55 60

Gln Leu Leu Val Tyr Ala Ala Thr Asn Leu Ala Asp Gly Val Pro Ser  
65 70 75 80

Arg Phe Ser Gly Ser Gly Thr Gln Tyr Ser Leu Lys Ile Asp  
85 90 95

Ser Leu Gln Ser Glu Asp Phe Gly Ser Tyr Tyr Cys Gln His Leu Trp  
100 105 110

Thr Ser Pro Tyr Thr Phe Gly Gly Thr Lys Leu Glu Ile Lys  
115 120 125

<210> 5

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<212> DNA

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<220>

<223> Synthetic DNA

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<221> CDS

<222> (1) .. (417)

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1 5 10 15		
cag tgt gag gtg caa ctt gtc gag tct gga ggt gga cta gtg cag cct		96
Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro		
20 25 30		
gga gga tca ctg aga ctc tcc tgt gca gcc tca gga ttc gat ttt agt		144
Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asp Phe Ser		
35 40 45		
aga ttc tgg atg agt tgg gtc cg <sup>g</sup> cag gct cca ggg aaa ggg ctc gag		192
Arg Phe Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu		
50 55 60		
tgg att gga gaa gtt aat cca gat aac aat acg atg aac tat acg cca		240
Trp Ile Gly Glu Val Asn Pro Asp Asn Asn Thr Met Asn Tyr Thr Pro		
65 70 75 80		
tct cta aag gat aaa ttc acc atc tcc aga gac aac gcc aaa aat acg		288
Ser Leu Lys Asp Lys Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr		
85 90 95		
ctg tac ctg caa atg aac tca ttg aga gct gag gac acg gcc gtt tac		336
Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr		
100 105 110		
tac tgt gca aga cct ccc tac tat ggt agc tac ggg ggg ttt gct tac		384
Tyr Cys Ala Arg Pro Pro Tyr Tyr Gly Ser Tyr Gly Gly Phe Ala Tyr		
115 120 125		
tgg ggc caa ggg act ctg gtc acc gtc tcc tca		417
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser		
130 135		

<210> 6

<211> 139

<212> PRT

<213> Artificial Sequence

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<223> Synthetic Peptide

<400> 6

Met Asp Phe Gly Leu Ile Phe Phe Ile Val Ala Leu Leu Lys Gly Val  
1 5 10 15

Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro  
20 25 30

Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asp Phe Ser  
35 40 45

Arg Phe Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu  
50 55 60

Trp Ile Gly Glu Val Asn Pro Asp Asn Asn Thr Met Asn Tyr Thr Pro  
65 70 75 80

Ser Leu Lys Asp Lys Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr  
85 90 95

Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr  
100 105 110

Tyr Cys Ala Arg Pro Pro Tyr Tyr Gly Ser Tyr Gly Gly Phe Ala Tyr  
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
130 135

<210> 7

<211> 381

<212> DNA

<213> Artificial Sequence

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<223> Synthetic DNA

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<221> CDS

<222> (1)..(381)

<223>

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Met	Ser	Val	Pro	Thr	Gln	Val	Leu	Gly	Leu	Leu	Leu	Leu	Leu	Trp	Leu	Thr	
1							5			10					15		
gat	gcc	aga	tgt	gac	atc	cag	atg	act	cag	tct	cca	tcc	tcc	cta	tct		96
Asp	Ala	Arg	Cys	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser		
					20				25				30				
gca	tct	gtg	gga	gac	agg	gtc	acc	atc	aca	tgt	cga	gca	agt	gag	aat		144
Ala	Ser	Val	Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Glu	Asn		
					35			40			45						
att	tac	aat	aat	tta	gct	tgg	tat	cag	cag	aaa	ccg	gga	aaa	gct	cct		192
Ile	Tyr	Asn	Asn	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro		
					50			55			60						
aag	cta	cta	gtc	tat	gct	gca	aca	aac	tta	gca	gat	ggt	gtg	cca	tca		240
Lys	Leu	Leu	Val	Tyr	Ala	Ala	Thr	Asn	Leu	Ala	Asp	Gly	Val	Pro	Ser		
					65			70			75		80				
agg	ttc	agt	ggc	agt	gga	tca	ggc	aca	cag	tat	acc	ctc	acg	atc	agc		288
Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Gln	Tyr	Thr	Leu	Thr	Ile	Ser		
					85				90				95				
agc	ctc	cag	cct	gag	gat	ttt	gcg	act	tat	tac	tgt	caa	cat	ttg	tgg		336
Ser	Leu	Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	His	Leu	Trp		
					100			105				110					
act	tct	ccg	tac	acg	ttc	gga	ggg	ggg	acc	aag	gtg	gaa	ata	aaa		381	
Thr	Ser	Pro	Tyr	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys			
					115			120			125						

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Met Ser Val Pro Thr Gln Val Leu Gly Leu Leu Leu Leu Trp Leu Thr  
1 5 10 15

Asp Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser  
20 25 30

Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Asn  
35 40 45

Ile Tyr Asn Asn Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro  
50 55 60

Lys Leu Leu Val Tyr Ala Ala Thr Asn Leu Ala Asp Gly Val Pro Ser  
65 70 75 80

Arg Phe Ser Gly Ser Gly Thr Gln Tyr Thr Leu Thr Ile Ser  
85 90 95

Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His Leu Trp  
100 105 110

Thr Ser Pro Tyr Thr Phe Gly Gly Thr Lys Val Glu Ile Lys  
115 120 125